Renew

= Research Needs Workshop June 7-13, 2009

http://burningplasma.org/Renew.html



- foundation for fusion program planning during the ITER era—roughly the next two decades.
 - Renew Report to OFES will appear mid-July, 2009.
- opportunity for the US fusion community to explain its research goals to a new administration.
 - Chu, Holdren, OMB...

Charter

- Renew is not a FESAC panel: no charge letter (despite two helpfully descriptive letters from Gene Nardella).
- Renew Executive Committee, including OFES members and external OFES participants, constructed a "Charter" to fill gap:
 - "Renew Goals and Strategy"

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Technical resources

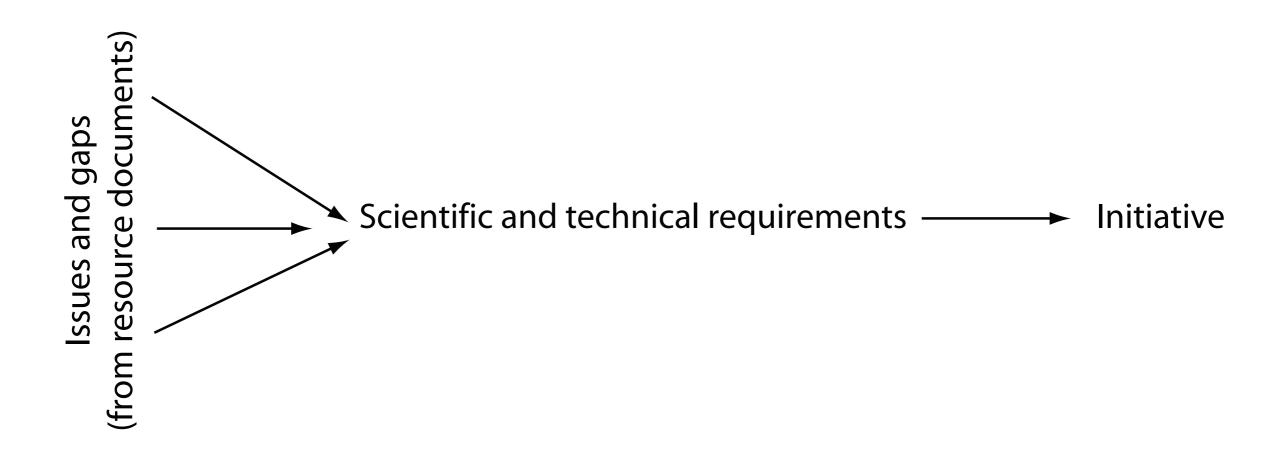
Three essential resource documents:

- Priorities, Gaps and Opportunities Panel, chaired by Martin Greenwald ("Greenwald report")
- Toroidal Alternates Panel, chaired by David Hill ("TAP report")
- Energy Policy Act (EPAct) task group of the U.S. Burning Plasma Organization ("EPAct report")

Product

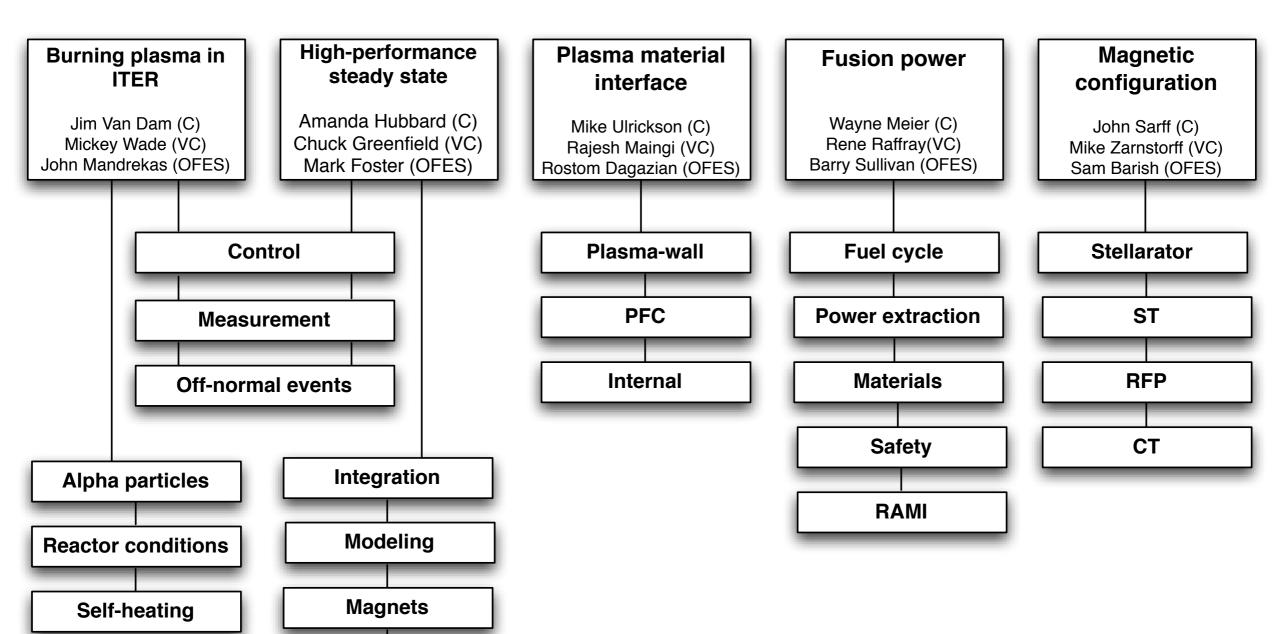
- Framework of Renew plan: a set of about 15 scientific and technical initiatives ("campaigns?").
- Initiative (campaign): an organized, multi-faceted attack on some question (or coherent set of questions) of magnetic fusion energy science or technology, using a combination of new and existing program elements.
- Intended to be basis for detailed program plan, to be constructed by OFES

Work-flow (idealized)



The point: "to ensure that each initiative is convincingly grounded in a compelling need of the the fusion research program."





Auxiliary systems

Schedule

- ✓ Panel organization complete: 12/3/08
- √ Theme Workshops scheduled: 12/12/08
- Workshops complete: 4/17/09
- ExCom consolidates campaigns: 5/2/09
- Workshop: 6/7-13
- Report submitted: 7/17/09

Status

- Renew is populated:
 - Theme chairs, vice chairs, OFES champions
 - Panels chaired and populated
- Theme workshops scheduled (March)
- Theme and ExCom teleconferences underway; emphasis on identifying requirements

Theme workshops

- Burning plasma in ITER: 3/23 27
- High-performance steady state: 3/23 27
- Plasma material interface: 3/4 6
- Fusion power: 3/2 4
- Magnetic configuration: 3/16 19

Topics (to be) discussed

- √ Stove-piping
- √ Repetition of previous studies
- √ Community input
- √ Recruitment
- √ Foreign participation
- Relation to major facilities' plans (top down vs. bottom up); relation to OFES Strategic plan
- Vocabulary